(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 13 October 2005 (13.10.2005)

PCT

(10) International Publication Number WO 2005/094777 A1

(51) International Patent Classification7:

A61K 7/48

(21) International Application Number:

PCT/JP2005/006411

- (22) International Filing Date: 25 March 2005 (25.03.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2004-105929 60/560,607

31 March 2004 (31.03.2004) 9 April 2004 (09.04.2004)

- (71) Applicant (for all designated States except US): SHOWA DENKO K.K. [JP/JP]; 13-9, Shiba Daimon, 1-chome, Minato-ku, Tokyo 105-8518 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KAMACHI, Motoaki [JP/JP]; c/o Showa Denko K.K., 5-1, Ogimachi, Kawasaki-ku, Kawasaki-shi, Kanagawa, 210-0867 (JP). KAMACHI, Harumi [JP/JP]; c/o Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056 (JP). KAKUCHI, Toyoji [JP/JP]; 2-1-8-206, Makomanai Izumimachi, Minami-ku, Sapporo-shi, Hokkaido 005-0015 (JP). SATOH, Toshifumi [JP/JP]; 10-1-41-110, Hachikengojounishi, Nishi-ku, Sapporo-shi, Hokkaido 063-0845 (JP).

- (74) Agent: OHIE, Kunihisa; Ohie Patent Office, Selva-Ningyocho 6F, 14-6, Nihonbashi-Ningyocho, 2-chome, Chuo-Ku, Tokyo 103-0013 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, Ff, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN; IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: EXTERNAL PREPARATION FOR SKIN

(57) Abstract: The present invention provides an external preparation for skin, which comprises a multi-branched polysaccharide derivative with multi-branched polysaccharide skeleton consisting of saccharides as constituent units, wherein at least one of hydroxyl (OH) groups in the multi-branched polysaccharide skeleton is substituted by OR (wherein R represents a hydrogen atom, a hydrocarbon having 1 to 30 carbon groups or a hydrocarbon having 1 to 30 carbon groups which has hetero atom), which can give moisture and turgor to the skin, and cosmetics containing the external preparation.